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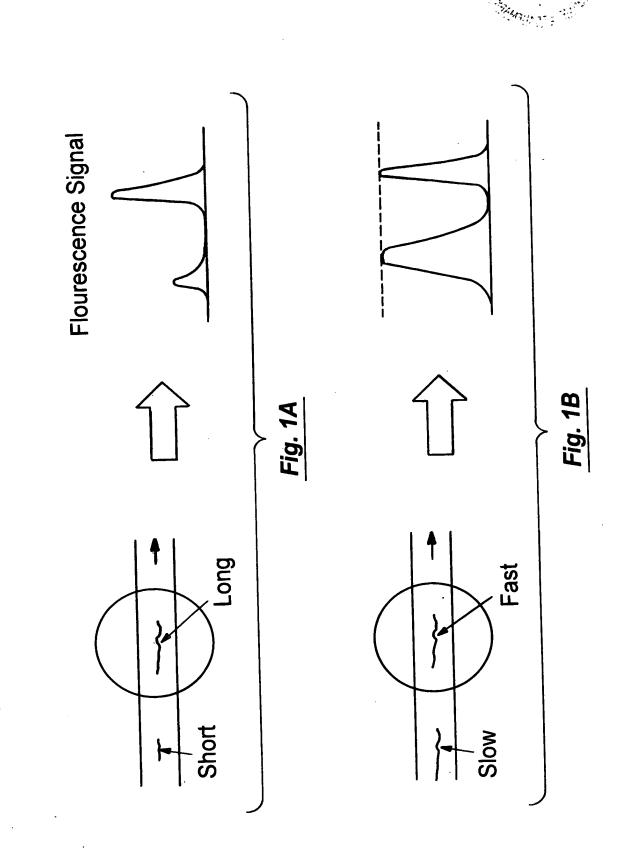
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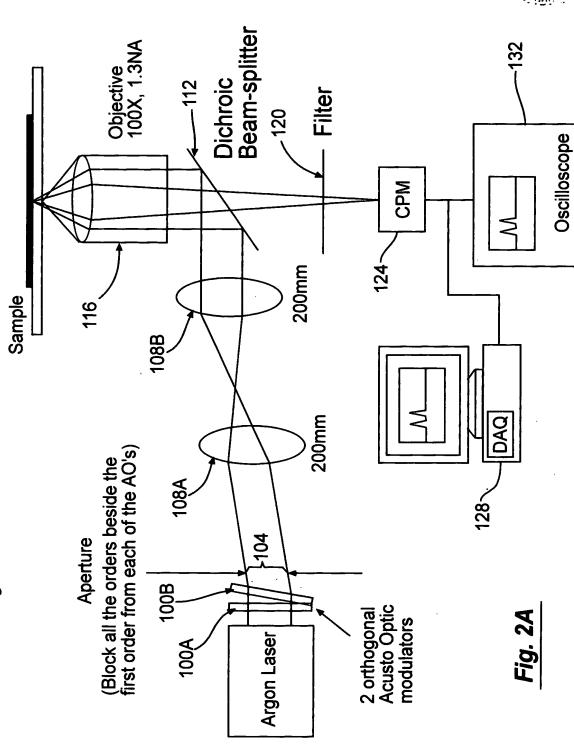
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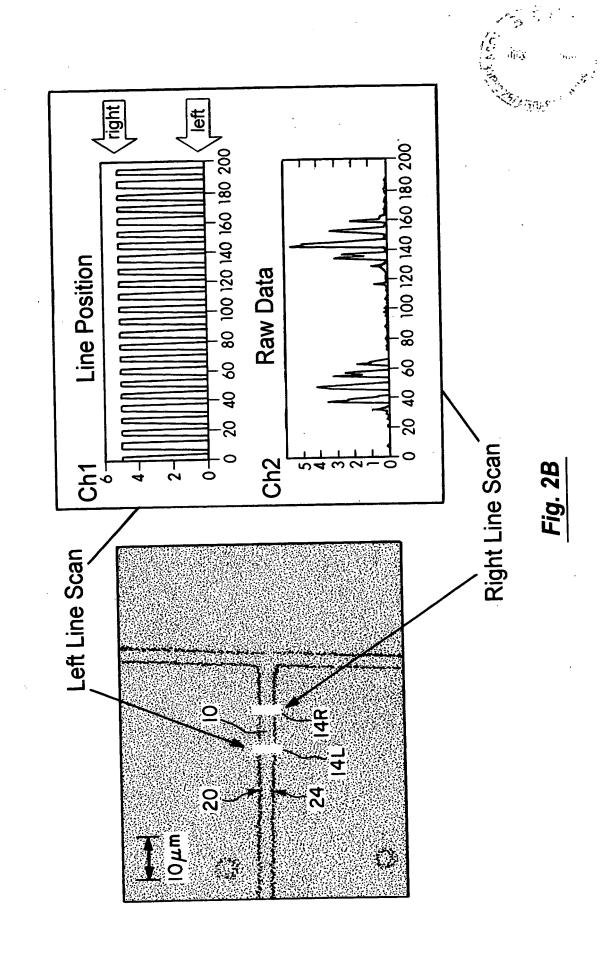
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VIM - system







The beam after the two Acusto Optics Modulators

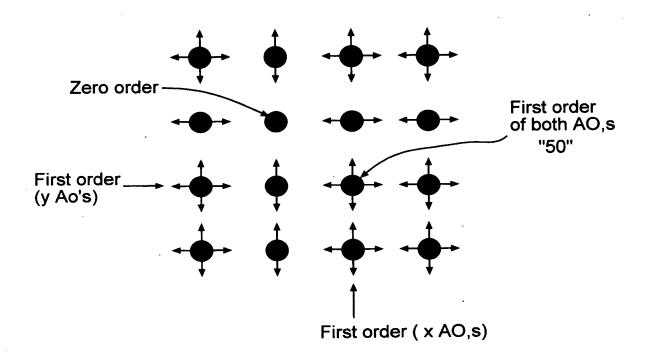


Fig. 2C

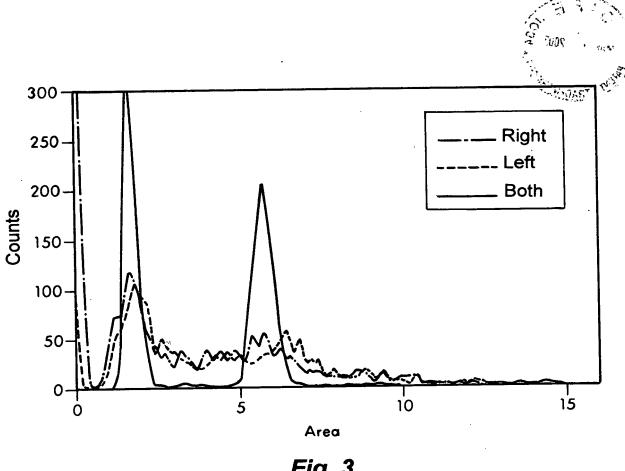


Fig. 3

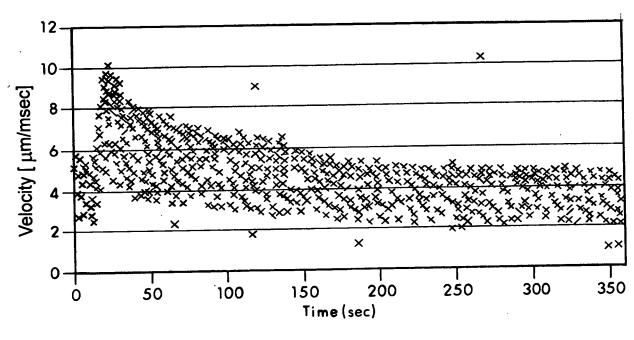
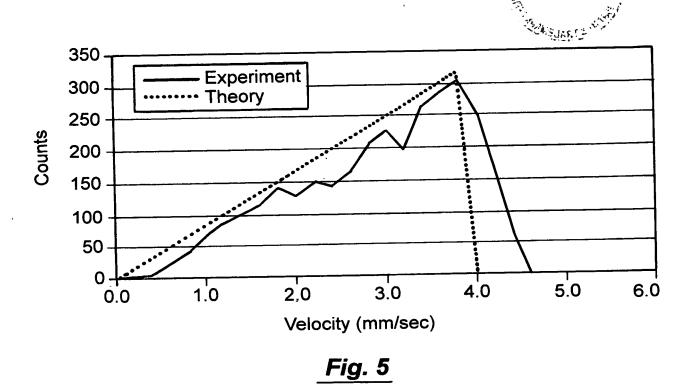
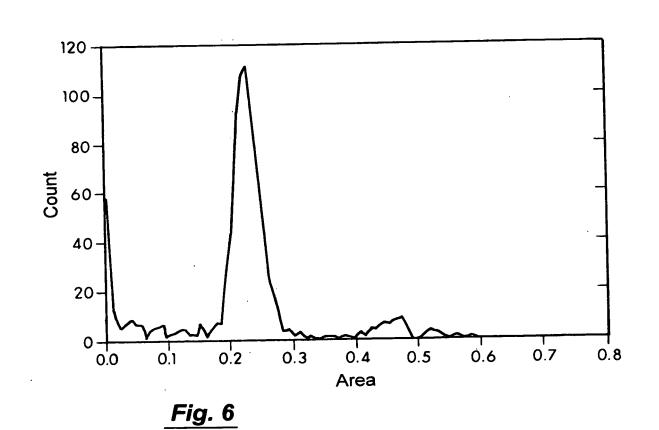


Fig. 4





ChDiv

Input - two vectors: Y(i) - channel 1 - square wave - chopping signal, 0<=Yi<=1 X(i) - channel 2 - flourescence raw data - from the detecting region (both line scan)

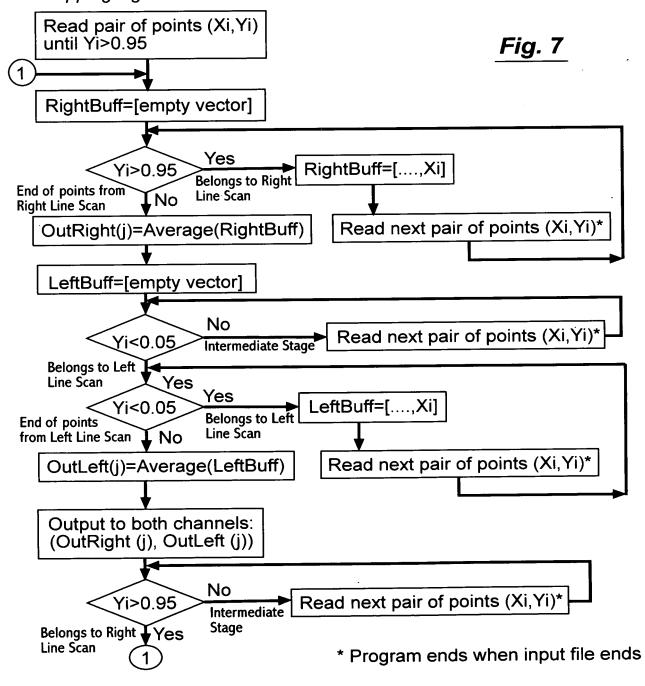
Usually Sampled at 40KHz

11.1

Output - two vectors: OutRight(j) - flourescence from Right Line scan OutLeft(j) - flourescence from Left_Line scan

Usually Sampled at 5KHz

The sampling rate of the output channels allways equals the frequency of the chopping signal

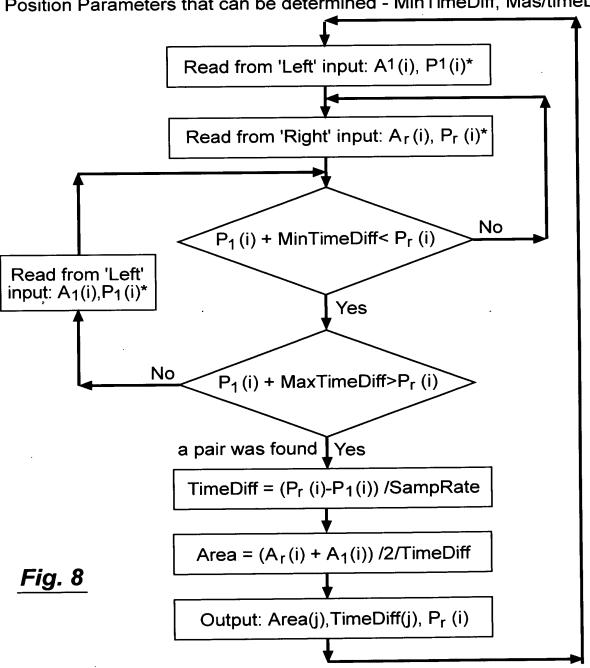


ArV1Analyzer

Input: two files (one for each line scan). Each file contain 2 vectors one of the Positions (P(i)) and the other has the corresponding Area (A(i))

Output: three vectors - Area, TimeDiff (inversely proportional to velocity), **Position**

Position Parameters that can be determined - MinTimeDiff, Mas/timeDiff



Position is presented in point number and not time TimeDiff is in Seconds and is inversely proportional to the velocity *Program ends when one of the input files ends